



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

DATE MAILED: 06/19/2002

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/384,108	08/27/1999	MICHAEL ANTHONY DOYLE	T8464929US	7387	
75	90 06/19/2002				
GOWLING STRATHY & HENDERSON SUITE 4900 COMMERCE COURT WEST TORONTO, CANADA			EXAMINER		
			SHAH, CHIRAG G		
			ART UNIT	PAPER NUMBER	
			2664	*****	

Please find below and/or attached an Office communication concerning this application or proceeding.

gy/

Office Action Summary    Application No.   DOYLE ET AL.     Examiner		<u> </u>			_	1. 1		
Period for Repty  AS HORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Eleasons of time may be enabled under be growing of 3° CTR 1.15(6), in or event, however, may a reply be timely filed after \$10 km/ltm/S from the majoration of the cover showever, may a reply be timely filed after \$10 km/ltm/S from the majoration of the communication of the cover showever, may a reply be timely filed after \$10 km/ltm/S from the majoration of this communication.  Failure to epidy which the set or extended period for reply is period.  ### No period for reply is specified above. the manifurm stability period will apply and wife expire SX (6) MoNTHS from the majoration of this communication.  ### Responsive to communication(s) filed on 27 August 1999.  ### Responsive to communication(s) filed on 27 August 1999.  ### Responsive to communication(s) filed on 27 August 1999.  ### Responsive to incommunication for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  ### Disposition of Claims  ### Application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  ### Application of Claims  ### Application of Claims  ### Application is objected to by the Examiner.  ### Claim(s)	•		Application	No.	pplicant(s)	10		
The MALLING DATE of this communication appears on the cover sheet with the correspondence address −  Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM  THE MALLING DATE OF THIS COMMUNICATION.  Bearwhord in the property of the pro	-		09/384,108		DOYLE ET AL.			
Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Elementor of the may be available under the provisions of 3 CFR 1.35(a). In no event, however, may a reply be timely fled after 50 K (b) MONTHS from the making date of this communication.  Flating the state of the provision of the provisions of 3 CFR 1.35(a). In no event, however, may a reply be timely fled after 50 K (b) MONTHS from the making date of this communication.  Flating to reply within the set or extended period for reply will, by statistic, cause the application to become ABMONTHS from the making date of this communication.  Flating to reply within the set or extended period for reply will, by statistic, cause the application to become ABMONTHS from the making date of this communication.  Flating to reply within the set or extended period for reply will, by statistic, cause the application to become ABMONTHS from the making date of this communication.  Flating to reply within the set or extended period for reply will, by statistic, cause the application to become ABMONTHS (b) (3 C, 5 (a)	Office Acti	on Summary	Examiner		Art Unit			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION  - AN HUNG DATE OF THIS COMMUNICATION  - If IS QUANTIES from the mailing date of this communication.  - If IS QUANTIES from the mailing date of this communication.  - If IS QUANTIES from the mailing date of this communication.  - If IS QUANTIES from the mailing date of this communication.  - If IS QUANTIES from the mailing date of this communication, seven at timely filed, may reduce any search by the Office late than these months after the mailing date of this communication, seven at timely filed, may reduce any search plant from a Quanties of the Communication of the Co								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  The MAILING DATE OF THIS COMMUNICATION.  The period for reply specified above is less than thirty (30) days, a reply within the saturbary printing reply and the considered limity.  If the period for reply specified above is less than thirty (30) days, a reply within the saturbary printing reply and pays with a considered limity.  If the period for reply specified above is less than thirty (30) days, a reply within the saturbary printing reply and pays with a considered limity.  If the period for reply specified above is less than thirty (30) days, a reply within the saturbary printing reply and pays and		ATE of this communication	appears on the c	over sheet with the	correspondence ac	ldress		
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of term may be withing date of the provision of 3° CFR i 136(a). In or event, however, may a reply be timely fitted after 5tk (6) MONTHS from the mailing date of this communication of 3° CFR i 136(a). In or event, however, may a reply be timely fitted after 5tk (6) MONTHS from the mailing date of this communication and the provision of the priority documents have been received.				EVELDE A MONTU	(C) EDOM			
1)  Responsive to communication(s) filed on 27 August 1999.  2a)  This action is FINAL. 2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) 1-14 and 16-20 is/are rejected.  7)  Claim(s) 3 and 15 is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11)  The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12)  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1  Certified copies of the priority documents have been received in Application No  3  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies on to received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 119(e) (to a provisional application).  10  Acknowledgment i	THE MAILING DATE C  - Extensions of time may be avafter SIX (6) MONTHS from t  - If the period for reply specific  - If NO period for reply is speci  - Failure to reply within the set  - Any reply received by the Officer	OF THIS COMMUNICATIOn ailable under the provisions of 37 CF and mailing date of this communication drawove is less than thirty (30) days, fied above, the maximum statutory prorextended period for reply will, by so later than three months after the results.	DN. FR 1.136(a). In no event n. a reply within the statuto eriod will apply and will e	, however, may a reply be ti ry minimum of thirty (30) da expire SIX (6) MONTHS fror thion to become ABANDON	mely filed ys will be considered time in the mailing date of this of ED (35 U.S.C. § 133).	ly. communication.		
2a)  This action is FINAL. 2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) is/are allowed.  6)  Claim(s) and 16-20 is/are rejected.  7)  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Application Papers  9)  The specification is objected to by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12)  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c)  None of:  1.  Certified copies of the priority documents have been received.  2.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has been received.  15)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  10  Notice of Paferen		communication(s) filed on	27 August 1999					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.    Disposition of Claims	•,—	_						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ○ Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) ○ Claim(s) is/are allowed.  6) ○ Claim(s) is/are allowed.  7) ○ Claim(s) 3 and 15 is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) □ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * c) □ None of:  1.□ Certified copies of the priority documents have been received.  2.□ Certified copies of the priority documents have been received in Application No  3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) □ The translation of the foreign language provisional application has been received.  15) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121.  Attachment(s)	3\□ Since this appli	cation is in condition for a	llowance except	or formal matters, p	prosecution as to t	ne merits is		
4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) □ Claim(s) is/are allowed.  7) □ Claim(s) 3 and 15 is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) □ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * c) □ None of:  1 □ Certified copies of the priority documents have been received.  2 □ Certified copies of the priority documents have been received in Application No application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) □ The translation of the foreign language provisional application has been received.  15) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  Notice of References Cited (PTO-982)  5 □ Notice of Informal Patent Application (PTO-152)	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) are subject to restriction and/or election requirement. 8	4)⊠ Claim(s) <u>1-20</u> is	alare pending in the applic	ation.					
6) Claim(s) 1-14 and 16-20 is/are rejected.  7) Claim(s) 3 and 15 is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  10 Notice of References Cited (PTO-892)  21 Notice of Draftsperson's Patent Drawing Review (PTO-948)	4a) Of the above	claim(s) is/are with	hdrawn from cons	sideration.				
T) ☐ Claim(s) 3 and 15 is/are objected to.  8 ☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9 ☐ The specification is objected to by the Examiner.  10 ☐ The drawing(s) filed on is/are: a ☐ accepted or b ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11 ☐ The proposed drawing correction filed on is: a ☐ approved b ☐ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12 ☐ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13 ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b ☐ Some * c ☐ None of:  1 ☐ Certified copies of the priority documents have been received.  2 ☐ Certified copies of the priority documents have been received in Application No  3 ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14 ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15 ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  Notice of References Cited (PTO-892)  5 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  5 ☐ Notice of Informal Patent Application (PTO-152)	5) Claim(s)	is/are allowed.						
8 Claim(s) are subject to restriction and/or election requirement.  Application Papers  9	6)⊠ Claim(s) <u>1-14 ar</u>	nd 16-20 is/are rejected.						
Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) ☐ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  4) ☐ Interview Summary (PTO-413) Paper No(s)  1) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) ☐ Notice of Informal Patent Application (PTO-152)	7)⊠ Claim(s) <u>3 and 1</u>	1 <u>5</u> is/are objected to.						
9 The specification is objected to by the Examiner.  10 The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s)		are subject to restriction a	and/or election red	quirement.				
10)  The drawing(s) filed on is/are: a)  accepted or b)  objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11)  The proposed drawing correction filed on is: a)  approved b)  disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12)  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c)  None of:  1.  Certified copies of the priority documents have been received.  2.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has been received.  15)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1)  Notice of References Cited (PTO-892)  4)  Interview Summary (PTO-413) Paper No(s)  Notice of Informal Patent Application (PTO-152)								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)	•			I to the first building Ex	aminor			
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)								
If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s)	Applicant may n	ot request that any objection	is: a)∏ an	proved b)∏ disapp	roved by the Exami	ner.		
12) ☐ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1 ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) ☐ Notice of Informal Patent Application (PTO-152)								
Priority under 35 U.S.C. §§ 119 and 120  13)								
13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c)  None of:  1	<i>,</i> —							
a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) ☐ Notice of Informal Patent Application (PTO-152)			oreian priority und	ler 35 U.S.C. § 119	(a)-(d) or (f).			
1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)  1. ☐ Interview Summary (PTO-413) Paper No(s)  Notice of Informal Patent Application (PTO-152)	• •		,	•				
2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  4) ☐ Interview Summary (PTO-413) Paper No(s)  Notice of Draftsperson's Patent Drawing Review (PTO-948)	,		ments have been	received.				
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☒ Notice of References Cited (PTO-892)  2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) ☐ Notice of Informal Patent Application (PTO-152)					ation No			
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  1) Interview Summary (PTO-413) Paper No(s).  Notice of Informal Patent Application (PTO-152)								
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  10 Interview Summary (PTO-413) Paper No(s).  11 Notice of Informal Patent Application (PTO-152)	applic See the attached *	cation from the Internation detailed Office action for	al Bureau (PCT) a list of the certifi	Rule 17.2(a)). ed copies not recei	ved.			
15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)  4) ☐ Interview Summary (PTO-413) Paper No(s)  5) ☐ Notice of Informal Patent Application (PTO-152)	14) Acknowledgment	is made of a claim for do	mestic priority un	der 35 U.S.C. § 119	e) (to a provision	al application).		
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  4) Interview Summary (PTO-413) Paper No(s)  5) Notice of Informal Patent Application (PTO-152)	a)	tion of the foreign languag t is made of a claim for do	ge provisional app omestic priority ur	olication has been ronder 35 U.S.C. §§ 1	eceived. 20 and/or 121.			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)								
	1) Notice of References Cite 2) Notice of Draftsperson's	Patent Drawing Review (PTO-94	48) No(s) <u>3</u> .	5) Notice of Inform	ary (PTO-413) Paper N al Patent Application (F	No(s) PTO-152)		

Art Unit: 2664

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 2, 5, 7, 1014, and 16-19 rejected under 35 U.S.C. 103(a) as being unpatentable over Alexander (U.S. Patent No. 6,272,120) in view of Meier (U.S. Patent No. 6,046,992).

Referring to claims 177 16, 12, 13 18, and 19, Alexander discloses in columns 13 and 14, a multi-radio bridge comprising a process for controlling the operations of the multi-radio bridge, a single routing table coupled to the processor, at least one antenna, a first and a second radio device wherein radio device can be a frequency hopping radio device or direct sequencing device, with roaming capability and comprising of a wired or a wireless interface. Alexander fails to disclose a bridge controller for controlling data traffic between the wired network and the first and second type of wireless device. Meire discloses in column 8 line 45 to column 9 lines 20 of a controller device, which contains a terminal nodes and a bridge. The bridge node is the root node if controller is functioning as the root bridge. Since a terminal device contains a terminal node, it must have a network interface function with wired or wireless node connections. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Alexander's invention to include Meier's invention in order to manage and control data traffic between wired and wireless devices.

Art Unit: 2664

Referring to claims 2, 5, 1, 14, and 1, Alexander does teach in column 5 lines 23 to column 6 lines 23 that the first type radio, an access point may comprise a first radio coverage area and the second radio, a second access point has a different coverage area while bridge apparatuses are distributed to cover a predetermined area with radio coverage of the bridge apparatuses as in claims. Alexander, however fails to explicitly disclose that each wireless device is assigned with an address and the controller functions in the first and the second modes in accordance with the address included. Meier teaches in column 11 lines 1 to column 12 lines 9, that each node has a unique long address, which is programmed into the node at the factory and the long address is used only to obtain a short address from the root node. A single controller may be designated as the root and may negotiate to determine which node is the root. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Alexander's invention to include Meier's teaching of the controller's addressing functions between the first and the second modes of wireless devices.

3. Claims 6, 8, 9, and 20 rejected under 35 U.S.C. 103(A) as being unpatentable over Alexander (U.S. Patent No. 6,272,120) in view of Warren (U.S. Patent No. 5,912,921).

Referring to claims 6, 8, 9, and 20, Alexander discloses in columns 13 and 14, a multiradio bridge comprising a process for controlling the operations of the multi-radio bridge, a single routing table coupled to the processor, at least one antenna, a first and a second radio device wherein radio device can be a frequency hopping radio device or direct sequencing device, with roaming capability and comprising of a wired or a wireless interface. Alexander fails to disclose that the first and the second type radio in accordance with the IEEE 802.11

Art Unit: 2664

specification. Warren teaches of a method for operating a wireless local area network, and discloses in column 7 lines 40-65, wireless devices may reserve a frequency for a predetermined time interval. The IEEE 802.11 standard can be used for a channel reservation mechanism including a request-to-send/clear-to-send system ("RTS/CTS"). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to include the IEEE 802.11 standard for wireless radio devices applied in Alexander's invention as revealed in Warren's invention.

4. Claims 4 and 16 rejected under 35 U.S.C. 103(a) as being unpatentable over Alexander as applied to claim1, 2, 5, 7, 10-14 and 16-19 above, and further in view of Cheung (U.S. Patent No. 5,901,362).

Referring to claims 4 and 16, Alexander teaches in figure 2, that information is transmitted between various devices in the communication system preferably in the form of packets using Spread Spectrum wireless communication techniques. Alexander fails to disclose that wireless devices includes wireless protocol information which indicates a wireless protocol used for communicating the data, and the data sent form the wired network includes wired protocol information which indicates a wired protocol used for communication data over the wired network including a protocol converter. Cheung teaches of an internetworking node that acts for all wireless nodes associated to it in relaying messages between wireless nodes or between a wired Local Area Network (LAN) and the wireless nodes. Cheung discloses in claim 15, a method of sending data message via a wired LAN adapter and receiving data from other wired nodes along the wired LAN that is capable of interconverting such data between a format

Art Unit: 2664

suited to be sent or received by wired LAN adapter whereby internetworking node can receive

Page 5

data from wired LAN and transmit it by wireless communication and can also receive data by

wireless communication and transmit it along the wired LAN. Hence, protocol conversion

between wired and wireless is being executed. Therefore, it would have been obvious to one

having ordinary skill in the art at the time the invention was made to include protocol conversion

as taught by Cheung in Alexander's invention to clearly distinguish wired data from wireless

data.

Allowable Subject Matter

5. Claims 3 and 15 objected to as being dependent upon a rejected base claim, but would be

allowable if rewritten in independent form including all of the limitations of the base claim and

any intervening claims.

Conclusion

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703)305-3988, (for formal communications intended for entry)

Or:

(703)305-3988 (for informal or draft communications, please label "Proposed" or

"DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2021 Crystal

Drive, Arlington, VA., Sixth Floor (Receptionist).

Art Unit: 2664

Page 6

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chirag G Shah whose telephone number is 703-305-5639. The

examiner can normally be reached on M-F 7:30 to 4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 301-305-4366. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

cgs

June 14, 2002

Ajit Patel
Primary Examiner